In the Claims:

Cancel claims 4, 6, 13, 15, 17 and 30, amend claims 1, 2, 3, 7, 12, 14, 18-

22, and add new claims 31, 32 and 33 as follows:

1. (Twice Amended) A compound of formula I:

(Y-N)-(spacer)-(amidine or guanidine group),

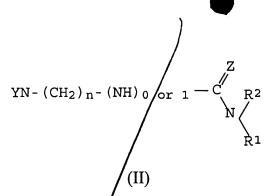
(I)

wherein Y-N is an opioid selected from the group consisting of morphine, codeine, heroin, ethylmorphine, O-carboxymethylmorphine, O-acetylmorphine, hydrocodone, hydromorphone, oxymorphone, oxycodone, dihydrocodeine, thebaine, metopon, ethorphine, acetorphine, diprenorphine (M5050), buprenorphine, phenomorphan, levorphanol, pentazocine, eptázocine, metazocine, ethoheptazine, ketobemidone, dihydroetorphine and dihydroacetorphine, and N in Y-N is a nitrogen atom of said opioid, to which is linked a spacer, which links said compound to an amidine or guanidine group or a pharmaceutically acceptable salt thereof,

wherein said compound acts as an analgesic, and has reduced or no activity in the central nervous system in comparison to said opioid Y-N.

- 2. (Twice Amended) A compound according to Claim 1, in which the spacer is a straight or branched alkyl, alkenyl or alkynyl chain of 1 to 6 carbon atoms.
- 3. (Twice Amended) A compound according to Claim 1, in which the spacer is a cyelic alkyl, alkenyl or alkynyl group.

7. (Twice amended) A compound according to Claim 1, of formula (II):



in which YN- represents an organic residue obtained by removal of the R group from an opioid selected from the group consisting of morphine, codeine, heroin, ethylmorphine, O-carboxymethylmorphine, O-acetylmorphine, hydrocodone, hydromorphone, oxymorphone, oxycodone, dihydrocodeine, thebaine, metopon, ethorphine, acetorphine, diprenorphine (M5050), buprenorphine, phenomorphan, levorphanol, pentazocine, eptazocine, metazocine, ethoheptazine, ketobemidone, dihydroetorphine and dihydroacetorphine of formula (IIIa)

YN-R (IIIa)

wherein R is H, alkyl of 1 to 6 carbon atoms, or cyclopropylmethyl, Z is NR³;

R¹ is H, alkyl or aryloxyalkyl, wherein the aryl group is optionally substituted by alkyl, alkoxy, halogen, or alkyl substituted by halogen, and alkyl, alkoxy and the alkyl moiety of aryloxy alkyl have 1 to 6 carbon atoms;

R² is H or an alkyl group having 1 to 6 carbon atoms;

R³ is H, alkyl, hydroxy, amino, cyano or acyl, wherein alkyl and acyl have 1 to 6 carbon atoms;

n is an integer of 1 to 6,

and wherein

R¹ and R³ may together complete a ring,

or a pharmaceutically acceptable salt thereof.

12. (Twice Amended) A compound according to Claim 8, in which R¹ and R² are both H.

14. (Twice Amended) A compound according to Claim 12, in which the opioid is morphine, codeine or buprenorphine.

18. (Twice Amended) A method of reducing the central nervous system activity of an opioid selected from the group consisting of morphine, codeine, heroin, ethylmorphine, O-carboxymethylmorphine, O-acetylmorphine, hydrocodone, hydromorphone, oxymorphone, oxycodone, dihydrocodeine, thebaine, metopon, ethorphine, acetorphine, diprenorphine (M5050), buprenorphine, phenomorphan, levorphanol, pentazocine, eptazocine, metazocine, ethoheptazine, ketobemidone, dihydroetorphine and dihydroacetorphine, comprising the step of linking the nitrogen atom of said opioid to a spacer group, which in turn is linked to an amidine or guanidine group.

19. (Twice Amended) A method for the preparation of a compound of formula II

YN-(CH₂)_n-(NH)₀ or 1
$$\stackrel{}{-}$$
 R²

(II)

ih which

YN-represents an organic residue obtained by removal of the R group from an opioid selected from the group consisting of morphine, codeine, heroin, ethylmorphine, O-carboxymethylmorphine, O-acetylmorphine, hydrocodone, hydromorphone, oxymorphone, oxycodone, dihydrocodeine, thebaine, metopon, ethorphine, acetorphine, diprenorphine (M5050), buprenorphine, phenomorphan, levorphanol, pentazocine, eptazocine, metazocine, ethoheptazine, ketobemidone, dihydroetorphine and dihydroacetorphine of formula (IIIa)

YN-R

(IIIa)

wherein R is H, alkyl of 1 to 6 carbon atoms, or cyclopropylmethyl, Z is NR^3 ;

R¹ is H, alkyl or aryloxyalkyl, wherein the aryl group is optionally substituted by alkyl, alkoxy, halogen, or alkyl substituted by halogen, and alkyl, alkoxy and the alkyl moiety of aryloxy alkyl have 1 to 6 atoms;

R² is H or an alkyl group having 1 to 6 carbon atoms;

R³ is H, alkyl, hydroxy, amino, cyano or acyl, wherein alkyl and acyl have 1 to 6 carbon atoms;

n is an integer of 1 to 6,

and wherein

R¹ and R³ may together complete a ring, comprising the steps of

(a) Reaction of a compound of formula (IV)

YN-H

(IV)

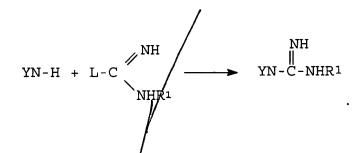
with a cyanamide, R¹NHCN, according to the equation

$$YN-H+R^{1}NHCH \longrightarrow YN-C-NHR^{1}$$

or

(b) Reaction of a compound of formula (IV) with a compound of formula (V)

wherein L is a leaving group, according to the equation



20. (Twice Amended) A method for the preparation of a compound of formula II

YN-
$$(CH_2)_n$$
 (NH) 0 or 1 - C R2 R1

in which

YN-represents an organic residue obtained by removal of the R group from an opioid selected from the group consisting of morphine, codeine, heroin, ethylmorphine, O-carboxymethylmorphine, O-acetylmorphine, hydrocodone, hydromorphone, oxymorphone, oxycodone, dihydrocodeine, thebaine, metopon, ethorphine, acetorphine, diprenorphine (M5050), buprenorphine, phenomorphan, levorphanol, pentazocine, eptazocine, metazocine, ethoheptazine, ketobemidone, dihydroetorphine and dihydroacetorphine of formula (IIIa)

YN-R

(IIIa)

wherein R is H, alkyl of 1 to 6 carbon atoms, or cyclopropylmethyl, Z is O, S or NR³;

R¹ is H, alkyl of aryloxyalkyl, wherein the aryl group is optionally substituted by alkyl, alkoxy, halogen, or alkyl substituted by halogen, and alkyl, alkoxy and the alkyl moiety of aryloxy alkyl have 1 to 6 carbon atoms;

R² is H or an alkyl group having 1 to 6 carbon atoms;

R³ is H, alkyl, hydroxy, amino, cyano or acyl, wherein alkyl and acyl have 1 to 6 carbon atoms;

n is an integer of 1 to 6,

and wherein

R¹ and R³ may together complete an addition ring,

comprising the steps of

(a) Reaction of a compound of formula (VI)

YN-CN

(VI)

with H₂S to obtain an N-thiocarboxamide YN-CSNH₂, and optionally reacting the YN-CSNH₂ with an amine R¹R²NH according to the first stage or optionally the two stages of the equation

S R1R2NH NH

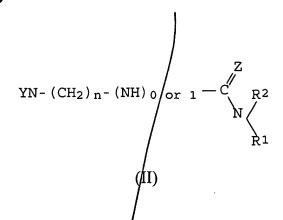
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YN-CN + H₂S
$$\rightarrow$$
 YN-CNH₂ \longrightarrow YN-C-NR1R2

to yield a compound of formula II where Z is S if the optional step is not taken, or a compound of formula II where Z is NH if the optional step is taken, or

(b) Methylating the N-thiocarboxamide to yield an isothiourea compound, which is in turn reacted with an amine R¹R²NH:

21. (Twice Amended) A method of synthesis of a compounds of formula (II)



in which

YN-represents an organic residue obtained by removal of the R group from an opioid selected from the group consisting of morphine, codeine, heroin, ethylmorphine, O-carboxymethylmorphine, O-acetylmorphine, hydrocodone, hydromorphone, oxymorphone, oxycodone, dihydrocodeine, thebaine, metopon, ethorphine, acetorphine, diprenorphine (M5050), buprenorphine, phenomorphan, levorphanol, pentazocine, eptazocine, metazocine, ethoheptazine, ketobemidone, dihydroetorphine and dihydroacetorphine of formula (IIIa)

YN-R (IIIa)

wherein R is H, alky of 1 to 6 carbon atoms, or cyclopropylmethyl, Z is O, S or NR³;

R¹ is H, alkyl or aryloxyalkyl, wherein the aryl group is optionally substituted by alkyl, alkoxy, halogen, or alkyl substituted by halogen, and alkyl, alkoxy and the alkyl moiety of aryloxy alkyl have 1 to 6 carbon atoms;

R² is H or an alkyl group having 1 to 6 carbon atoms;

R³ is H, alkyl, hydroxy, amino, cyano or acyl, wherein alkyl and acyl have 1 to 6 carbon atoms;

n is an integer of 1 to 6,

and wherein

R¹ and R³ may together complete an addition ring,

comprising the step of reacting an N-cyano compound of formula (VI)

with methanol under acidic conditions to yield an isourea, which in turn is reacted with an amine according to the equation

YN-CN + CH₃OH
$$\longrightarrow$$
 YN-C-OCH₃ \longrightarrow YN-C-NR¹R²

22. (Twice Amended) A method of synthesis of a compound of formula (II)

YN-(CH₂)_n-(NH)₀ or 1-
$$\frac{Z}{R^2}$$
R1
(II)

in which

YN-represents an organic residue obtained by removal of the R group from an opioid selected from the group consisting of morphine, codeine, heroin, ethylmorphine, O-carboxymethylmorphine, O-acetylmorphine, hydrocodone, hydromorphone, oxymorphone, oxycodone, dihydrocodeine, thebaine, metopon, ethorphine, acetorphine, diprenorphine (M5050), buprenorphine, phenomorphan, levorphanol, pentazocine, eptazocine, metazocine, ethoheptazine, ketobemidone, dihydroetorphine and dihydroacetorphine of formula (IIIa)

wherein R is H, alkyl of 1 to 6 carbon atoms, or cyclopropylmethyl,

Z is NH;

R¹ is H, alkyl or aryloxyalkyl, wherein the aryl group is optionally substituted by alkyl, alkoxy, halogen, or alkyl substituted by halogen, and alkyl, alkoxy and the alkyl moiety of aryloxy alkyl have 1 to 6 carbon atoms;

R² is H or an alkyl group having 1 to 6 carbon atoms;

n is an integer of 1 to 6,

and wherein

R¹ and R³ may together complete/an addition ring,

comprising the step of reacting an N-¢yano compound of formula (VI)

and a metallated residue

 $\int_{C} NaNR^{1}R^{2} \qquad NH$

YN-CN

BrMgNR¹R² or CH₃ Al Cl N R¹R²

- 31. (New) A composition comprising a compound according to Claim 7, together with a pharmaceutically acceptable carrier.
- 32. (New) A method of inducing analgesia in a mammal, said method comprising administration of a compound of claim 1 in amounts effective to induce said analgesia.
- 33. (New) A method of inducing analgesia in a mammal, said method comprising administration of a pharmaceutical of claim 23 in amounts effective to induce said analgesia.